Index Of Sheets

SHEET NO.	DESCRIPTION	
	TITLE SHEET ESTIMATED ROADWAY TYPICAL SECTIONS	QUANTITIES
10-11	GENERAL NOTES AND	SPECIAL NOTES

SHEET NO.	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	04-15-04	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	09-05-04	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL
T-S-20	05-27-01	SIGN DETAILS

N

BEGIN PROJECT (COOPER ST.)

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE CITY OF MEMPHIS IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PROPOSAL CONTRACT

OWNER .	CITY OF MEMPHIS	_
DESIGNER .	MARK RANDALL	
CHECKED BY	HEATHER KRAUS, PE	
PROJECT NO.	PW01203	
TDOT PIN NO.	112656.00	
CONTRACT NO.	090085	
TDOT CONTACT	NANCY SARTOR	

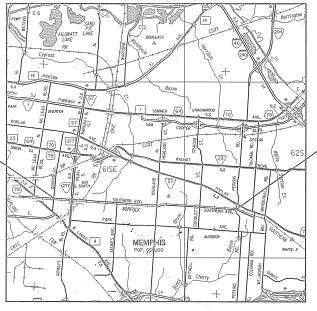
CITY OF MEMPHIS DIVISION OF PUBLIC WORKS BUREAU OF ENGINEERING

COUNTY

SOUTHERN AVE.

FROM: COOPER ST. TO: PERKINS RD.

RESURFACING ARRA GROUP 1



SCALE: 1"=4000'

TRAFFIC DATA ADT (2009)

PROJECT LENGTH TOTAL LANE MILES RESURFACED

3.903 MILES 13.520 MILES

LOCALLY MANAGED PROJECT

END PROJECT

(PERKINS RD.)

TENN	YEAR	SHEET NO.		
TENN.	2009	1		
FED. AID PROJ. NO.	ARRA-STP-M-2861(2)			
STATE PROJ. NO.	79LPLM-F3-176			



PRELIMINARY NOT FOR CONSTRUCTION

UTILITY OWNERS UTILITY UTILITY CONTACT MEMPHIS LIGHT GAS AND WATER TOM WORD (901)528-4186 220 S. MAIN ST. MEMPHIS, TN. 38101 MLGW CITY OF MEMPHIS GARY VADEN (901)576-6725 125 N. MAIN ST. MEMPHIS, TN.38103 SEWER AT & T TENNESSEE DON ROE (731)423-5037 315 EAST COLLEGE ST. JACKSON, TN 38301 TELEPHONE

EXCLUSIONS NO RESURFACING BETWEEN SEMMES AVE. AND HIGHLAND ST



Z/Z6/10 PR-CITY ENGINEER

		ESTIMA	TED R	OADWAY QU	MNTITIES		
					QUANTITIES FO	OR BID ALTERNATES	•
	ITEM NO.	DESCRIPTION	UNIT	COOPER ST. TO SEMMES AVE. +/- 9/50*	MIGHLAND ST. TO EAST OF GOODLETT ST. #/-5930*	EAST OF GOODLETT ST. TO EAST OF CHERRY RD. +1-2430*	EAST OF CHERRY R TO PERKINS RD. +/-3100*
	202-03.03	REMOVAL OF ASPHALT PAVEMENT	C.Y.	899	480	262	378
10-	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	10	0	0 -	0
(1)-	303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING D	TON	498	266	145	210
(1)-	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	1353	723	394	570
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	. 5.	2	1	2
23	411-01.10	ACS MIX(PG64-22) GRADING D	TON	3566	1581	812	1369
9	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	5782	3026	1407	2073
12	501-01	PORTLAND CEMENT CONCRETE REPLACEMENT	S.Y.	0	37	0	0
8	701-02.01	CONCRETE HANDICAP RAMP (RETROFIT)	S.F.	3200	2080	320	960
	712-01	TRAFFIC CONTROL	LS	1 100	1 312	1 204	1 231
(4)	712-06	SIGNS (CONSTRUCTION)	S.F. EACH	402 35	24	204	20
	712-04.01 712-08.03	FLEXIBLE DRUMS (CHANNELIZING) ARROW BOARD (TYPE C)	EACH	2	0	0	0
				4040	765	0	400
1	716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	1210 400	0	0	450
	716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.			25	280
15-	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	LF.	665	260	0	8
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	12	7		8
	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	10	5	0	
6	716-05.01 716-09.01	PAINTED PAVEMENT MARKING (4" LINE) WET REFLEC, PVMT MARKING(4" LINE)	L.M.	5.3 4.5	1.2	1.6	2.1
50			LS	1	1	1	1
	717-01	MOBILIZATION	LS				
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	1	1	0	3
	730-11.10	RISER ASSEMBLY (1")	EACH	- 1	1	- 0	3
0	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	350	350	0	1050
10-	730-14.01	SHIELDED DETECTOR CABLE	LF.	350	350	0	1050
	730-14.02	SAW SLOT	LF.	. 68	. 388 .	0	2220
	730-14.03	LOOP WIRE	LF.	172	996	0	4816
Colonial\ARRA-0i-Southern-02.sh1		FOOTNOT	ΓES			•	
A/diblin		(1) TO BE USED IN BREAKOUT SECTI	ON.		74.5		

				ľ
				ľ
				 1

- 5) FOR FINAL PAVEMENT MARKING ONLY.
- 6 FOR TEMPORARY PAVEMENT MARKING ONLY
- (7) SHALL CONFORM TO CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATION 02890.

SIGNALIZATION TABULATION						
INTERSECTION	LOOP WIRE 730-14.03 (LIN. FT.)	SAW SLOT 730-14.02 (LIN. FT.)	SHIELDED CABLE 730- 14.01 (LIN. FT.)	12 04 0 IM	RISER ASSEMBLY 1" 730- 11.10	INSTALL PULL BOX (TYPE B) 730-03.21
SEMMES AVE. @ SOUTHERN AVE.	172	68	350	350	1	1
GOODLETT ST. @ SOUTHERN AVE.	996	388	350	350	1	1
OAK COURT BLVD. @ SOUTHERN AVE.	1,974	782	350	350	1	1
PERKINS EXTD. @ SOUTHERN AVE.	908	482	350	350	1	1
PERKINS RD. @ SOUTHERN AVE.	1,934	956	350	350	1	1
TOTALS	5,984	2,676	1,750	1,750	5	5

8 SHALL CONFORM TO CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATION 02770 AND 02775.

ADA RAMP LOCATIONS				
INTERSECTION	NE QUAD.	SE QUAD.	SW QUAD.	NW QUAD.
PERKINS @ SOUTHERN	0	1	1	0
PERKINS EXTENDED @ SOUTHERN	1	1	1	1
GOODLETT @ SOUTHERN	1	0	0	1
SHOTWELL @ SOUTHERN	0	1	1	0
LOEB @ SOUTHERN	0	1	1	0
BUCK @ SOUTHERN	0	1	1	0
ECHLES @ SOUTHERN	0	1	1	0
GRAHAM @ SOUTHERN	0	1	1	0
WATSON @ SOUTHERN	0	1	1	0
HAYNES @ SOUTHERN	1	0	0	1
HOLLYWOOD @ SOUTHERN	1	0	0	. 1
EARLY MAXWELL @ SOUTHERN	0	0	0	1
NORMAL @ SOUTHERN	1	0	0	1
GOODMAN @ SOUTHERN	1	0	0	1
EAST PARKWAY @ SOUTHERN	2	0	0	1
BRUCE @ SOUTHERN	0	0	0	1
NEW YORK @ SOUTHERN	1	0	0	1
COOPER @ SOUTHERN	1	1	1	1
TANGLEWOOD @ SOUTHERN	0	0	0	1
TOTALS	10	9	9	12

- 3) SEE SPECIAL PROVISION NO. 407G FOR MATERIAL TRANSFER DEVICE.
- 4 QUANTITY INCLUDES:

2	ROAD WORK NEXT 1.8 MI.	(G20-1)
2	ROAD WORK NEXT 2.2 MI.	(G20-1)
4	END ROAD WORK	(G20-2)
12	UNEVEN LANES	(W8-11)
45	ROAD WORK AHEAD	(W20-1)
4	ROAD WORK 1500 FT.	(W20-1)
4	ROAD WORK 1000 FT.	(W20-1)
4	ROAD WORK 500 FT.	(W20-1)
4	ONE LANE ROAD AHEAD	(W20-4)
4	FLAGGER AHEAD	(W20-7a)
4	FRESH OIL	(W21-2)

THIS CONSTRUCTION SIGNING IS TO BE AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.

 CONSTRUCTION
 COOPER @ SOUTHERN
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 2
 2
 2
 2
 2

PRELIMINARY NOT FOR

- ① TO BE USED FOR REPLACEMENT OF CONCRETE WATER TABLE. SEE CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATION 02770.
- ① SEE SPECIAL PROVISION NO. 716WR FOR WET REFLECTIVE PAVEMENT MARKING LINE.
- (1) TO BE USED AS DIRECTED BY ENGINEER. FOR BASE REPAIR NEAR GOODWYN ST.
- (2) SHALL CONFORM TO CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATION 02770. TO BE USED FOR WATER TABLE REPAIR AT GRAHAM ST.

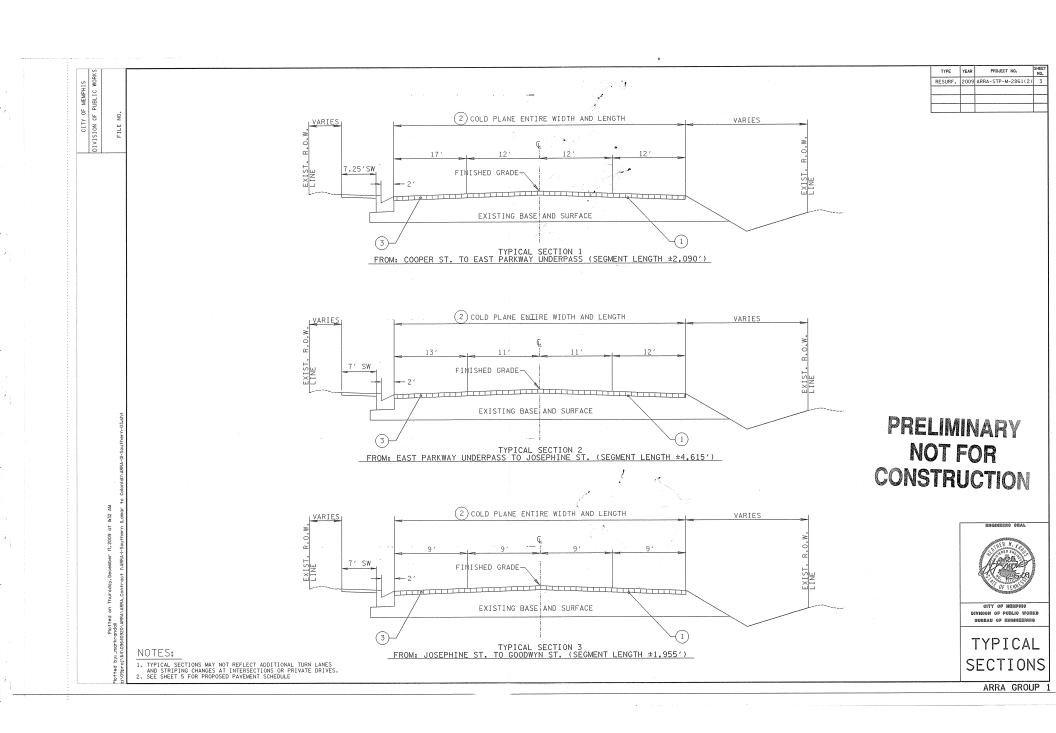
A particular of

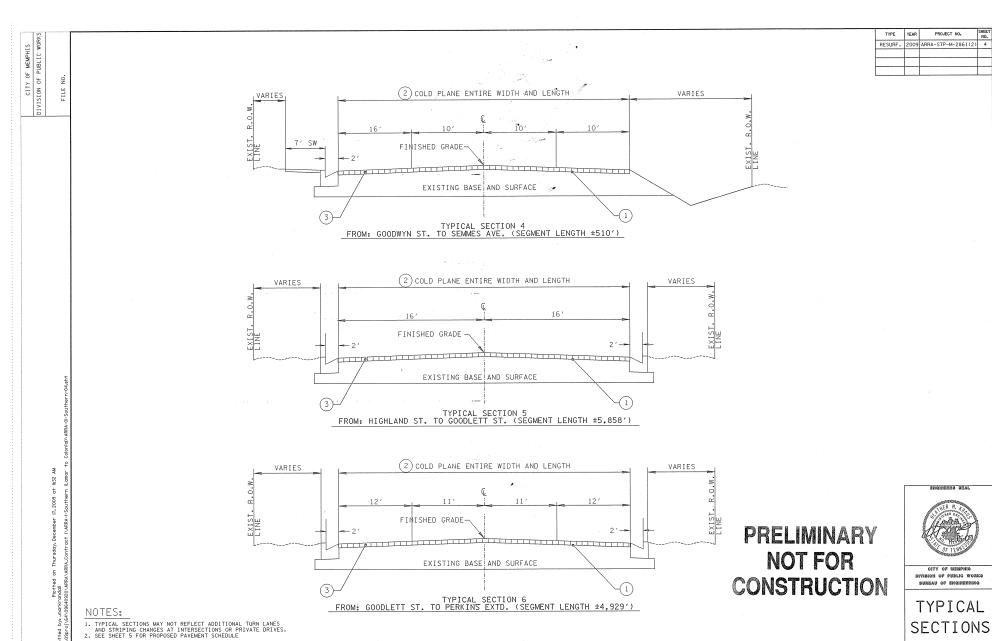
YEAR PROJECT NO. SHEET NO. 2009 ARRA-STP-M-2861(2) 2

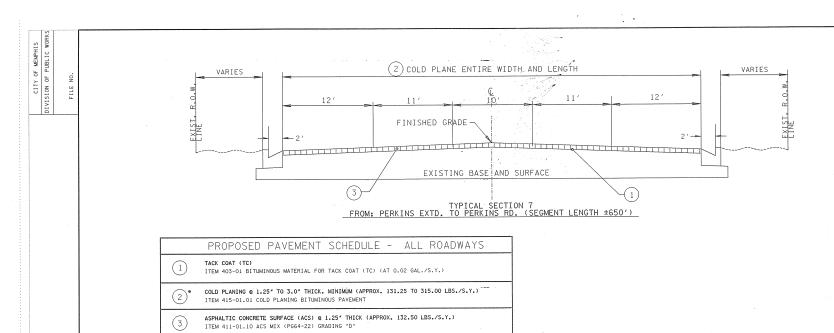
RESURF.

CITY OF MEMPHIS DIVISION OF PUBLIC WORKS BUREAU OF ENGINEERING

ESTIMATED ROADWAY QUANTITIES





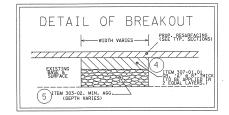


• SEE GUTTER PAN OVERLAY MILLING DETAIL

MINERAL AGGREGATE BASE @ 3" THICK FOR ROADWAY

BITUMINOUS BASE COURSE (BLACK BASE) @ 8" THICK (APPROX. 920. LBS./S.Y.)
ITEM 307-01.01 ASPHALT CONCRET MIX (PG64-22) (BPMB-HM) GRADING "A"

ITEM NO. 303-02 MINERAL AGGREGATE, TYPE "B" BASE, GRADING "C OR D"

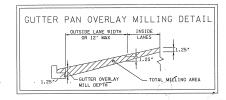


BRIDGE NOTE

THE CONTRACTOR SHALL MILL 1.25" AND OVERLAY 1.25" OVER EXISTING BRIDGE ON THIS PROJECT

NOTES:

1. TYPICAL SECTIONS MAY NOT REFLECT ADDITIONAL TURN LANES AND STRIPING CHANGES AT INTERSECTIONS OR PRIVATE DRIVES.



SEGMENT	TYPICAL SECTIONS
COOPER ST. TO SEMMES AVE.	1, 2, 3, AND 4
HIGHLAND ST. TO EAST OF GOODLETT ST.	5
EAST OF GOODLETT ST. O EAST OF CHERRY RD.	6
EAST OF CHERRY RD. TO PERKINS RD.	6 AND 7

PRELIMINARY NOT FOR CONSTRUCTION



SHEET NO.

PROJECT NO.

RESURF, 2009 ARRA-STP-M-2861(2)

TYPE YEAR

CITY OF MEMPHIS
DIVISION OF PUBLIC WORKS
BUREAU OF ENGINEERING

TYPICAL SECTIONS

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

GUARDRAIL

- (2) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OF FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL INCLUDINS ANY ANCHOR SYSTEM, SHALL BE INSTALLED OUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.
- 3) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

DRAINAGE

(4) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

UTH ITIES

- (5) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE OF ERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- (6) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LIMES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-MAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVIENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION, FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE EMGINEER.
- (7) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (8) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS ANDIOR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES HAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENITY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS INCCESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFICID IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFICID IN THE UNIT

(9) THE CONTRACTOR SHALL NOTIFY EACH HIDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES, PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TGA 653-1-108.

MISCELLANEOUS

- (10) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.
- (11) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.
- (12) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE
 THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND
 CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE
 PROPOSED CONSTRUCTION AREA

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

(13) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS BEFORE DARK HOURS, SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNIDER ITEM NO. 716-05.01.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (14) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BEERECITED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (15) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNINEEDED IS GINDS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE POOT.
- (16) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- 17) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (18) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIAL NOTES

- (19) ALL STRIPING (PAINT) SHALL BE COMPLETED 24 HOURS AFTER OVERLAY IS COMPLETE. ALL OTHER PLASTIC PAVEMENT MARKINGS SHALL BE COMPLETE WITHIN 14 DAYS.
- (20) THE ASPHALT CONCRETE SURFACE SHALL CONTAIN ALL NEW MATERIALS.
 USE OF PAP WILL NOT BE PERMITTED FOR SURFACE MIXES, VARIOUS STREETS IN CONTRACT SHALL BE PAVED STARFING AT THE BEGINNING OF THE PROJECT LIST AS PROVIDED IN THE PROPOSAL CONTRACT AND CONTRIVE UNTIL ALL FUNDS ARE DEPLETED. IF THE CONTRACT UNDER RUNS, ADDITIONAL PROJECTS WILL BE ADDED TO THE EXISTING
- (21) OVERLAP EXISTING ASPHALT LONGITUDINAL JOINTS A MINIMUM OF 12".
 MILL ALL BRIDGE APPROACHES EQUAL TO SURFACE COURSE DEPTH.
- (22) ADDITIONAL BUSHING AND CONDITIONING REQUIRED OF MILLED AREAS LEFT UNPAYED MORE THAN SEVEN (7) DAYS SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE REQUIRED TO PATCH STREETS AS NEEDED.
- (23) UNLESS OTHERWISE DIRECTED BY ENGINEER, PERMANENT STRIPING SHALL BE REPLACED TO MATCH THE EXISTING STRIPING PRIOR TO MILLING.

(24) LNLESS OTHERWISE DIRECTED BY ENGINEER, PAVING LIMITS AT NON-SIGNALIZED INTERSECTIONS SHOULD EXTEN TO 1THE END OF RADIUS OF THE SIDE ROAD. AT SIGNALIZED INTERSECTIONS, THE PAVING LIMITS SHOULD EXTEND TO 50 BEYOND THE END OF RADIUS TO INCLUDE TRAFFIC SIGNAL DETECTION LOOPS.

(25) THE CONTRACTOR SHALL PROPERLY ADJUST ALL MANHOLE, ALL UTILITY VALVE STRUCTURES, AND LIKE STRUCTURES TO THE FINISHED GRADE OF THE PAVEMENT. IF EXTENSION RINGS ARE USED, ADJUSTMENT IS TO BE MADE PRIOR TO THE LAYING OF ITEM 411-01.10.ADJUSTMENT IS TO BE INCLUDED IN ITEM 411-01.10.

GRADING

(26) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF CITY-OWNED R.O. W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MINAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER UPLANDS ON PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

HANDICAP RAMPS

- (27) PAYMENT FOR HANDICAP RAMPS SHALL BE PAID WHEN ASPHALT IS IN PLACE. ASPHALT MUST BE IN PLACE AT THE HANDICAP RAMP WITHIN TWO (2) WEEKS OF RAMP INSTALLATION.
- (28) ALL EXISTING CURB, GUTTER, AND SIDEWALK SHALL BE SAW CUT AND REMOVED FOR CURB RAMP CONSTRUCTION.
- (29) THE CONTRACTOR SHALL NOT INCREASE PRICE DUE TO SPECIAL PROVISION REGARDING PRICE ADJUSTMENT FOR BITUMINOUS MATERIAL.
- (30) CONSTRUCTION OF HANDICAP RAMPS SHALL CONFORM TO CITY OF MEMPHIS STANDARDS AND STANDARD CONSTRUCTION SPECIFICATIONS.
- (31) CONTACT A.D.A. COORDINA TO R AT (901) 576-6907 PRIOR TO POURING CONCRETE FOR CURB RAMPS.
- (32) PROVIDE 48 INCHES DISTANCE BETWEEN POLE AND ANY EDGE OF WHEEL CHAIR RAMPS.

SIGNALIZATION

- (33) THE CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS TRAFFIC DEPARTMENT (901-576-5710) AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEM BE RESPONSIBLE FOR ISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION
- (34) LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF LEVELING COURSE IS PROVIDED.
- (35) LOOPS SHALL BE REPLACED IN ACCORDANCE WITH THE ORIGINAL RECORD DRAWINGS OR AS DIRECTED BT THE CITY INSPECTOR.
- (36) ALL CONSTRUCTION FOR SIGNALIZATION AND SIGNALIZATION EQUIPMENT SHALL CONFORM TO CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFIC ATURE.

EROSION CONTROL

- (37) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE.
- (38) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OF DEPOSIT OF SEDIMENT ON ROADIAVYS USED BY THE GENERAL PUBLIC.

TRAFFIC CONTROL

- 39) SEE PAGE 6F-7 OF THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR HEIGHT AND LATERAL LOCATION OF SIGNS.
- (40) THE CONTRACTOR SHALL COMPLY WITH SECTION 712 OF THE STANDARD SPECIFICATIONS FOR RODA AND BRIDGE CONSTRUCTION REGARDING TEMPORARY TRAFFIC CONTROL AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).



TYPE YEAR

PROJECT NO.

RESURF. 2009 ARRA-STP-M-2861(2) 6

ENGREENS CEAL

CITY OF MEMPINS DIVISION OF PUBLIC WORKS BUREAU OF ENGINEERING

GENERAL NOTES Š.

FILE

- ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL.
- ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARKANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THIRTY (30)
 FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS THIRTY (30) FEET SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S
- USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- ALLSIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO THE ORIGINAL LOCATION, COST TO BE INCLUDED IN ITEM NO. 712-
- IF THE CONTRACTOR'S WORK PHASES REQUIRE ADDITIONAL ARROW BOARDS OTHER THAN INCLUDED WHAT ARE IN ESTIMATE. THER COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

- (50) DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY
 - 1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES:
 - WARNING SIGNS, UNEVEN PAVEMENT (W8-11) AND/OR SHOULDER DROP-OFF (W8-9A), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
 - DIFFERENCES IN FLEVATION RETWEEN ADJACENT TRAFFIC LANES BEING UTLIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
 - DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UT LIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
 - WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

- 2 DIFFER FNCES IN FLEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN
 - SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE
 - WHERE POSTED SPEEDS ARE 50 MPH OR GREATER. SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
 - WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS
 - IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH & PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (INEVEN PAVEMENT AND/OR LOW SHOULDER) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
 - WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH & REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGN S SHALL BE 2.000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS EN COUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORKZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORKZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

PROJECT NO. TYPE YEAR NO. RESURF. 2009 ARRA-STP-M-2861(2

ENGINEERS SEAL



DIVISION OF PUBLIC WORKS BUREAU OF ENGINEERING

> **GENERAL** NOTES